

IL-9/HP40, Human, Recombinant

Cat. No. : PCK364

General Information

Synonyms	p40 cytokine;T-cell growth factor p40;HP40
Species	Human
Expression host	E.coli
Sequence	QGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCCLGIPSDNCTRPCFSERLSQMTNTTM QTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTLKSLLEIFQKEKMRGMRGKI with polyhistidine tag at the N-terminus.
Accession	P15248.1
Tag	His-tag at the N-terminus
Mol mass	14.93 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce proliferation in MO7e cells. The ED50 for this effect is < 0.25 ng/mL. The specific activity of recombinant human IL-9 is approximately > 5 ×10 ⁶ IU/ mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin 9, also known as IL-9, is a pleiotropic cytokine (cell signalling molecule) belonging to the group of interleukins. IL-9 is produced by variety of cells like mast cells, NKT cells, Th2, Th17, Treg, ILC2, and Th9 cells in different amounts. Among them, Th9 cells are regarded as the major CD4⁺ T cells that produce IL-9.

SDS-PAGE

